

Manufacturers of Insulated Wire and Cable

WireTek, Inc. - Technical Datasheet - www.wiretekusa.com			
Product:	M3432-12LHE(2/22X6)SJ0500		
NSN:			
Description:	12 conductor AWG 22-26/36 - 6 Pairs (L) Light Duty, (H) Low Temperature, Heat and Weather Resistant, (E) Extra Flexible Shielded Cable		
Rating:	-55°C TO +90°C / 300 VOLTS		
PRIMARY CONDUCTOR INFORMATION			
Primary Conductor Gauge Size:	AWG 22 - 26	Conductor DCR at 25°C MAX. (Ω/1000 ft)	18.0900
Primary Conductor Stranding:	26 E - Extra Flexible Stranding (E in "LHE")		
Single Wire Gauge Size / Diameter:	36		
Conductor Material Allowed:	Bare Copper or Tin Copper (Bare Copper is common)		
Nominal Insulation Thickness:	.016" L - Light Duty (L in "LHE" - Class designation 1st letter)		
Color Code of Primary Wires:	Black,White,Green,Red,Blue,Orange,White/Blk,Red/Blk,Green/Blk and Orange/Blk		
Alternative Color Code:	N/A		
Insulation Material(s) Allowed:	IH, S(TPE-S) & O(TPE-O) Class designation "H" - in LHE, 2nd Letter		
	IH Low Temperature, Heat and Ozone Resistant, Ethylene-Propylene Rubber (EPM) or Ethylene-Propylene-Diene Rubber (EPDM)		
WireTek uses TPE(S)	S	Low Temperature Heat and Ozone Resistant, Styrenic Thermoplastic Elastomer (TPE-S)	
WireTek uses TPE(O)	O	Low Temperature Weather Resistant, Olefinic Thermoplastic Elastomer (TPE-O)	
TWISTING INFORMATION			
Lay Length and other information:	6 Pairs twisted with a standard lay length without Clear Mylar		
OVERALL CABLING INFORMATION			
Cable Core:	6 pairs of AWG 22 are cabled together with optional fillers to make the core round		
Separator:	Polyester Tape / Clear Mylar		
Overall Braid:	85% Coverage using tin copper or bare copper (Tin Copper is common)		
OVERALL JACKET INFORMATION			
Jacket Material(s) Allowed:	S (TPE-S), O(TPE-O), JH		
	JH - Low Temperature, Heat Resistant and Weather Resistant, Ethylene - Propylene(EPM) or Ethylene Propylene Diene Rubber (EPDM)		
	WireTek uses TPE(O) and TPE(S) for the jacket material		
Jacket Construction:	TPE(O) jacket as per the standard		
Jacket Color:	BLACK		
Nominal Overall Cable Diameter:	.500" ±.020"		
Cable Marking / Print Legend:	Part Number and Manufacturer's name and year of manufacture		
WireTek's Marking:	M3432-12LHE(2/22X6)SJ0500 Marking Tape under the jacket is marked: WIRETEK, INC. + year of manufacture		
Cable Weight per 1000 feet:	120 lbs per 1000 feet approximately	Copper Weight/mft	61.00
PARTIAL ELECTRICAL REQUIREMENTS			
Spark Test Voltage:	3,000 VOLTS rms	Unaged Tensile Strength (TPE-O):	1000 psi
Dielectric Withstand Voltage:	1,000 VOLTS	Unaged Minimum Elongation:	250%
CABLE IS TESTED AND CERTIFIED TO MIL-DTL-3432 LATEST REVISION			
NOTE: WIRETEK, INC. USES TPE(O) OR TPE(S) FOR THESE CABLES. WIRETEK'S TPE(O) IS RATED TO 125°C			